achv
AIR CONDITIONING, HEATING & VENTILATING
INCLUDING THE AMERICAN PLUMBING ENGINEER

1968

INDEX TO FEATURE ARTICLES

Only feature articles (including Data Sheets) are listed in this index, grouped by broad subject matter and by author. Abbreviation **Ref. Sec.** (for Reference Section) indicates that the article appeared as a special section providing a comprehensive review of the state of the art of the subject indicated; **TAPE** indicates that the article appeared in The American Plumbing Engineer, a section of ACHV which is the journal of American Society of Plumbing Engineers.

INDEX BY SUBJECT

AFTERCOOLERS
For compressed air systems. Selecting Dry Compressed Air Systems. (Ref. Sec.), W. M. Newman and C. F. Connell, Nov:47

AIR, COMPRESSED
SEE Compressed Air

AIR CONDITIONING
Containment by air curtain. Keeping Customers Cool at Laurel Raceway, Mar:92
Criteria for system selection: Systems Selection Guidelines (Ref. Sec.), Adolf Nuchtern, Jun:58
Effect of Altitude on Equipment Performance (Ref. Sec.), Mel Ramsey, Mar:41; Specification and Design Seminar: Effect of Altitude on Equipment Performance, Mel Ramsey, Apr:57
Fibrous Glass Duct (Ref. Sec.), Feb:39
For hotels. Latest From Europe, R.M.E. Diamant, Dec:14
For landscaped offices. Latest From Europe, R. M. E. Diamant, Dec:14
For low-income housing. ARI Committee to Study FHA Proposal for Air Conditioning of Low-Income Housing, Apr:16
Heat conservation cycle. Students Provide Heat, Get Free Air Conditioning, Jan:73
in India. Changing Patterns in India, H. M. Jhangiani, Jan:55
in Russia, Self-Contained Units. Latest From Europe, R. M. E. Diamant, May:6
"Lite Therm" system for. Water Removes Lighting and Solar Heat, Oct:63A
Mechanical Requirements of Bomb Shelters (TAPE), Thomas H. Parry, Apr:108
Multizone units, modifications to. Specification and Design Seminar: Modifying a Multizone to Eliminate Waste, Mel Ramsey, Oct:61; Specification and Design Seminar: Multizone Units--Subject to Change, Mel Ramsey, Dec:41
Of very large spaces, geodesic and dynamic domes for. Environmental Control Becomes Architecture, R. Buckminister Fuller, Jul:33
Prime movers, steam turbines for. Is There a Steam Turbine in Your Future?, John J. Coffey, Apr:43
Problems with new systems. From the Office of Joseph R. Loring and Associates: Innovators, Beware! (Ref. Sec.) Jun:46
Residential, in Italy. Latest From Europe, R.M.E.Diamant, Mar:16
Studies Effects of Thermal Environment on Learning, Oct:12
Systems for laboratories: Selecting Systems for Lab Buildings (Ref. Sec.), William J. Dunn, Jun:53

AIR CONDITIONING, SCHOOLS
Control Wiring for Standby Equipment, Carl H. Jordan, Jan:53
Unit ventilators for. Heating Strips Cut Mechanical Costs, May:59
SEE Also, Campus Systems

AIR CONDITIONING, UNITARY
Calculating Cooling Needs by Computer, Leon J. Taub, Sept:57

AIR CURTAIN
Applied to raceway. Keeping Customers Cool at Laurel Raceway, Mar:92

AIR DRYING
Selecting Dry Compressed Air Systems (Ref. Sec.), W. M. Newman and C. F. Connell, Nov:47
Fundamentals of Compressed Gas (TAPE), Jan:111

AIR FILTRATION
Cost Estimating: The Cost of Clean Air (Ref. Sec.), Morton Bell, Jul:41

AIR HANDLING
Calculating Bearing Life in Air Moving Devices, R. L. Lanier, Oct:51
Fiberglass fan housing. Glass Reinforced Plastic Eliminates Corrosion on Exhaust Fan Housing, Aug:70
Fibrous Glass Duct (Ref. Sec.), Feb:39; Standard Fibrous Glass Duct Fittings and Sheet Metal Accessories, Detail Sheet, Feb:51; Fibrous Glass Duct Gains Acceptance, J. M. Barnhart, Nov:54
Friction Drop Across Louvers (Data Sheet), John D. Constance, Mar:49
Fireproofing Return Air Plenums, Michael J. Kodaras, Dec:29
in hospitals, Aseptic Conditions in Hospitals, Aug:4; Controlling Airflow Between Hospital Areas, Frank Heckert, Dec:33
in sterile areas. Air Handling Techniques for the Sterile Work Area, Joachim E. Gehrke-Manning, Dec:38
Integrated ceiling systems. How the EE Influences System Selection (Ref. Sec.), Joseph R. Loring, Jun:47; Integrated Ceiling System Handles Air, Light and Sound, Apr:59
Selection of fans for. Fans in HVAC Service, R. H. Seibert, Sept:54
Sheet metal ducts. Estimating Sheet Metal Duct Weights (Data Sheet), John D. Constance, Aug:57
Systems Selection Guidelines (Ref. Sec.), Adolf Nuchtern, Jun:58
Take-offs, outlets, air filter, strip diffuser, toilet exhaust, power roof exhauster. Standards for HVAC Systems and Equipment (Detail Sheet), Harold B. Swygert, Nov:69

AIR POLLUTION CONTROL
Design for Air Pollution Control (Monthly, by Ed Seiler): Air Pollution and the HVAC Engineer, Aug:13; Reader Asks for Collector Data, Jan:7; Extended surface packing, Sept:13; Reader in Poland has sandstorm problem, Apr:10; Plate scrubbers, Dec:8; Review of Los Angeles manual, Nov:11; Selecting tower packing, May:11; Comparison of source sampling techniques, Mar:17; Stack analysis for sampling, Feb:8; Latest on standard testing procedures, Jun:16, Horizontal scrubbers, Oct:18; Venturi-Type Wet Scrubbers (by Stanley K. Kempner) Jul:14

ALTITUDE
Effect of Altitude on Equipment Performance (Ref. Sec.), Mel Ramsey, Mar:41; Apr:57

BEARINGS
for air moving devices. Calculating Bearing Life in Air Moving Devices, R. L. Lanier, Oct:51

BOILERS
Corrosion of. Cure for Pitting in Low Pressure Boiler Systems, R. T. Blake, Nov:45
Explosions of. Field Report on a Boiler Explosion, Robert H. Emerick, Sept:61
Fuels, combustion and water treatment for. How to Design Steam and HTW Systems -- Part 2 (Ref. Sec.), William L. Sculthorpe, Aug:41
Manifolds for venting from bank. Large-Diameter Manifold Offers Esthetic Solution to Unusual Venting Problem, Sept:63
Modular Boilers Gain Favor, Oct:42
Primary circuit. Piping for Building HVAC (Detail Sheet), Harold B. Swygert, Oct:55
Revised Hot Water Ratings for Cast Iron and Steel Boilers, Oct:10

BUILDING CODES
A National Building Code?, Howard Shuman, Mar:7

BUILDING CONSTRUCTION
USASI Approves Module Standard for Building, Nov:4

CAMPUS SYSTEMS
Campus Distribution System Snakes Around Priceless Trees, Jan:75
Cost Estimating: Central Heating and Refrigeration Systems, Sam P. Goethe, Oct:46
Students Provide Heat, Get Free Air Conditioning, Jan:73
Total Energy for Campus Dormitories (Ref. Sec.), J. T. Coan and B. I. Routh, Jul:47

CLEAN ROOMS
Air handling techniques for. Air Handling Techniques for the Sterile Work Area, Joachim E. Gehrke-Manning, Dec:38
Cost Estimating: Air Handling Equipment for Contamination Control (Ref. Sec.), Milton Meckler, Jul:37

CLIMATIC DATA
for Canada. (Data Sheet), Jan:77

COAL
Ash handling. How to Design Steam and HTW Systems-- Part 2, (Ref. Sec.), William L. Sculthorpe, Aug:41

COMBINATION BURNER
Wood/Coal. Latest From Europe, R.M.E.Diamant, Apr:8

COMBUSTION
of oil and gas in central plants. How to Design Steam and HTW Systems--Part 2 (Ref. Sec.), William L. Sculthorpe, Aug:41

COMPRESSED AIR
Principles and equipment for. Fundamentals of Compressed Gas (TAPE), Jan:111
Selection of. Selection Dry Compressed Air Systems (Ref. Sec.), W. M. Newman and C. F. Connell, Nov:47

COMPRESSED AIR SYSTEMS
Principles and equipment for. Fundamentals of Compressed Gas (TAPE), Jan:111
Selection of. Selection Dry Compressed Air Systems (Ref. Sec.), W. M. Newman and C.F. Connell, Nov:47

COMPRESSORS, AIR
Fundamentals of Compressed Gas (TAPE), Jan:111

COMPRESSORS, REFRIGERANT
Traps for protection of. Specification and Design Seminar: Traps That Protect Compressors, Mel Ramsey, Jul:53

COMPUTERS
Analyses of piping costs. Short Cuts to Analyzing Piping Costs, Charles J. Allen, Jan:61
Calculating Cooling Needs by Computer, Leon J. Taub, Sept:57

CONDENSATE TANKS
Control of. Specification and Design Seminar: Cavitation, Velocity and Liquid Level, Mel Ramsey, Jan:69; Feb:61

CONDENSERS AND CONDENSING UNITS
Effect of Altitude on Equipment Performance (Ref. Sec.), Mel Ramsey, Mar:41

CONSULTING ENGINEERING
Practice of. Personal Service is the Key to Success (Ref. Sec.), Jun:75

CONTAMINATION CONTROL
Cost Estimating: Air Handling Equipment for Contamination Control (Ref. Sec.), Milton Meckler, Jul:37

CONTRACTORS
Instant Prequalification of Contractors Gains Favor in Chicago, Apr:55
The Contractor and the Salesman, Nov:44

CONTROLS
as a factor in building system selection. Systems Selection Guidelines (Ref. Sec.), Adolf Nuchtern, Jun:58
Refrigerant, bypass. Automatic Hot Gas Bypass-Protection at Low Loads, C. G. Kirkman, Jan:64
Refrigeration, flash tank. Specification and Design Seminar: Cavitation, Velocity and Liquid Level, Mel Ramsey, Jan:69; Feb:61
Wiring for standby equipment. Control Wiring for Standby Equipment, Carl H. Jordan, Jan:53

COOLING TOWERS
Effect of altitude on performance. Specification and Design Seminar: Effect of Altitude on Equipment Performance, Mel Ramsey, Apr:57
Enclosures. The Disappearing Cooling Tower, John C. Hensley, Apr:50
Performance certification for. How Cooling Tower Performance is Certified, Bruce Brand, Dec:31
Savings with. Cooling Towers Pay Their Way for (dry) Cleaning Firm, Dec:46

CORROSION
Effect of microbes on. Microbe Hunter Joins Corrosion Fighter, Oct:45
in fan housings. Glass Reinforced Plastic Eliminates Corrosion on Exhaust Fan Housing, Aug:70
in low pressure boilers. Cure for Pitting in Low Pressure Boiler Systems, R. T. Blake, Nov:45

COST ESTIMATING
Air handling equipment for clean rooms. Cost Estimating: Air Handling Equipment for Contamination Control (Ref. Sec.), Milton Meckler, Jul:37
Air filtration. Cost Estimating: The Cost of Clean Air (Ref.Sec.), Morton Bell, Jul:41
Campus central systems. Cost Estimating: Central Heating and Refrigeration Systems, Sam P. Goethe, Oct:46
Factors in building mechanical systems. From the Office of Joseph R. Loring and Associates: Systems Selection Guidelines (Ref.Sec.), Adolf Nuchtern, Jun:58
Piping. Cost Estimating Building Service Systems: 20--Cast Iron Ring Joint Water Pipe, Kenneth B. Edmunds, Jan:71; 21--Type K Copper Tubing, Feb:65
Total energy system for dormitories. Cost Estimating: Total Energy for Campus Dormitories (Ref.Sec.), J. T. Coan and B. I. Routh, Jul:47

COSTS, MAINTENANCE
Design for Minimum Maintenance, Max C. Reefer, Nov:41

COSTS, PIPING
Short Cuts to Analyzing Piping Costs, Charles J. Allen, Jan:61

DISTRICT HEATING
SEE, also, Campus Systems
German insulation for. Latest From Europe, R. M. E. Diamant, Mar:15
in the Soviet Union. Latest From Europe, R. M. E. Diamant, Feb:14

DRAFTING
Photographic techniques for. Introduction to the Seminars (TAPE), Howard A. Wolfberg, Aug:96

DRAINAGE
New Design for the Underground Garage (TAPE), Donald F. Dickerson, Mar:105
Plumbing Drains--How to Specify Them (TAPE), Roger H. Zierenberg, Jul:80

DUST COLLECTORS
Efficiency of. Design for Air Pollution Control: Reader Asks for Collector Data, Ed Seiler, Jan:7

ELECTRIC HEATING
SEE Heating, Electric, Dec:45

ENVIRONMENTAL CONTROL
Geodesic and dynamic domes for. Environmental Control Becomes Architecture, R. Buckminster Fuller, Jul:33

EVAPORATIVE CONDENSERS
Effective of altitude on performance. Specification and Design Seminar: Mel Ramsey, Apr:57

EXHAUST STACKS
Analysis of effluent. Design for Air Pollution Control: Ed Seiler, Feb:8

FAN HOUSINGS
Glass Reinforced Plastic Eliminates Corrosion on Exhaust Fan Housing, Aug:70

FANS, CENTRIFUGAL
For direct connection to spiral duct. Latest From Europe, R. M. E. Diamant, Oct:23
Effect of Altitude on Equipment Performance (Ref. Sec.), Mel Ramsey, Mar:41

FAN-COIL UNITS
Standards for HVAC Systems--Continued (Detail Sheet), Harold B. Swygert, Dec:63

FIELD SUPERVISION
From the Office of Joseph R. Loring and Associates: Field Supervision (Ref.Sec.), Harley F. Fincken, Jun:51

FILTERS, AIR
SEE Air Filtration

FILTERS, WATER
Removing Color From River Water (TAPE), Apr:103

FIRE DAMPERS
Standards for HVAC Systems--Continued (Detail Sheet), Harold B. Swygert, Dec:63

FLASH TANKS
Control of. Specification and Design Seminar: Cavitation, Velocity and Liquid Level--Continued, Mel Ramsey, Jan:69; Feb:61

FOULING FACTOR
Effect on Water Heating. Domestic Water Heater Fundamentals (TAPE), John A. Clark, Oct:87
From the Office of Joseph R. Loring and Associates: Don't Foul Out! (Ref. Sec.), Harrison D. Goodman, Jun:66

FUEL OIL
Combustion in central plants. How to design steam and HTW Systems--Part 2 (Ref.Sec.), William L. Sculthorpe, Aug:41

FUME HOODS
Selecting Systems for Lab Buildings (Ref. Sec.), William J. Dunne, Jun:53

GAS HEATING
Combustion in central plants. How to Design Steam and HTW Systems--Part 2 (Ref. Sec.), William L. Sculthorpe, Aug:41
Modular Boilers Gain Favor, Oct:42
with heat recovered from engines and turbines. Ins and Outs of Heat Recovery Equipment (Ref. Sec.), Paul E. Clay, Jan:47

GARAGES
Drainage and ventilation for. New Design for the Underground Garage (TAPE), Donald F. Dickerson, Mar:105

HEAT CONSERVATION CYCLE
Students Provide Heat, Get Free Air Conditioning, Jan:73

HEAT OF LIGHT SYSTEM
Gas Supplements Heat of Light, John Brucker, Jr., Oct:39

HEAT RECOVERY EQUIPMENT
From turbines and engines. Ins and Outs of Heat Recovery Equipment (Ref. Sec.), Paul E. Clay, Jan:47

HEAT TRANSFER
Fouling factors in water heating. Don't Foul Out! (Ref. Sec.), Harrison D. Goodman, Jun:66
Pipe Insulation--An Integral Part of Piping Systems (TAPE), Harvell M. Smith, May:111

HEATING
All-electric. Students Provide Heat, Get Free Air Conditioning, Jan:73
Condensate tanks for. Specification and Design Seminar: Cavitation, Velocity and Liquid Level, Mel Ramsey, Jan:69; Feb:61
Gas Infrared Heats California School, Feb:67
Hot water systems, pumping. Piping for Building HVAC (Detail Sheet), Harold B. Swygert, Oct:55
Make-up air, installation on roof. Air or Money--Income Must Balance Outflow, Mar:91
Modular Boilers Gain Favor, Oct:42
Steam coils, flash tank details. Piping for Building HVAC (Detail Sheet), Harold B. Swygert, Oct:55
with refuse incineration in Europe. Latest From Europe, R. M. E. Diamant, Jun:21; Jul:6
Mechanical Costs, May:59
Urethane Insulation Cuts Cost of All-Electric Heating Installation, Dec:45

HEATING SYSTEMS
Control Wiring for Standby Equipment, Carl H. Jordan, Jan:53

HEATING AND VENTILATING
Details for Piping and Ducting. Standards for HVAC Systems and Equipment (Detail Sheet), Harold B. Swygert, Nov:69

HIGH TEMPERATURE WATER
How to design steam and HTW Systems--Part 2 (Ref.Sec.), William L. Sculthorpe, Aug:41

HOSPITALS
Aseptic Conditions in Hospitals, Aug:4
Controlling Airflow Between Hospital Areas, Frank Heckert, Dec:33

HOTELS
Air Conditioning for. Latest From Europe, R. M. E. Diamant, Dec:14
Water heating in cramped space. More Hot Water at Lower Cost, Apr:63

HEATING, CENTRAL
SEE Central Heating, Oct:46

HEATING AND COOLING
Hydronic year-round system for housing. Levitt's Gift to Hydronics, Oct:41

HEATING, ELECTRIC
Strip heaters with unit ventilators for schools. Heating Strips Cut

HOUSING
ARI Committee to Study FHA Proposal for Air Conditioning of Low-Income Housing, Apr:16

HYDRONIC YEAR-ROUND SYSTEM
Levitt's Gift to Hydronics, Oct:41

INCINERATORS
Waste Heat Recovery from Incinerators Can Pay Off, Oct:15
for urban heating systems in Europe. Latest From Europe, R.M.E. Diamant, Jun:21; Jul:6

INDIA
Air conditioning in. Changing Patterns in India, H.M.Jhangiani, Jan:55

INSULATION
Aerospace Insulation Materials Point the Way to Better HVAC, Robert B. Trelease, Nov:52
for HTW systems. Latest From Europe, R.M.E.Diamant, Mar:15
Pipe Insulation--An Integral Part of Piping Systems (TAPE), Harvell M. Smith, May:111

INTEGRATED CEILINGS
Criteria for selection. Systems Selection Guidelines (Ref. Sec.), Adolf Nuchtern, Jun:58
Electrical considerations. How the EE Influences System Selection, Joseph R. Loring, Jun:47
System Handles Air, Light and Sound, Apr:59

LABORATORIES
Air conditioning and ventilation systems for. Selecting Systems for Lab Buildings (Ref. Sec.), William J. Dunne, Jun:53
Gas Supplements Heat of Light, John Brucker, Jr., Oct:39

LANDSCAPED OFFICES
Latest From Europe, R. M. E. Diamant, Dec:14

LICENSING
A Glimpse of Some Recent Trends in P. E. Licensing, John D. Constance, Apr:48

LOUVERS
Friction Drop Across Louvers (Data Sheet), John D. Constance, Mar:49

MAINTENANCE
Engineering at design stage. Design for Minimum Maintenance, Max C. Reefer, Nov:41

MAKE-UP AIR HEATING
SEE Heating (Make-Up Air), Mar:91

MECHANICAL COUPLINGS
Victaulic type. Mechanical Couplings and Grooved Pipe Solve Installation Problems (TAPE), John H. Krooss, Jun:122

MECHANICAL SERVICES
Scale Models for Mechanical Services (TAPE), Michael Hargreaves and J. G. Rodgers, Jul:77

MECHANICAL SYSTEMS
Field supervision for. How to Get Construction Performance to Specifications, Joseph R. Kelsch, Jr., Sept:52

MODULAR COMPONENTS
At London exhibition. Latest From Europe, R.M.E.Diamant, Apr:8

MOTORS
Effect of Altitude on Equipment Performance (Ref.Sec.), Mel Ramsey, Mar:41

PIPING
Cost Estimating Building Service System, Kenneth B. Edmunds: 20--Cast Iron Ring Joint Water Pipe, Jan:71; Type K Copper Tubing: Feb: 65
Building HVAC. Piping for Building HVAC (Detail Sheet), Harold B. Swygert, Oct:55
Cast iron soil, No-hub type. No-Hub Gasketing Saves Space and Money on Hospitals Addition, Jul:56
Concrete Pipelines Cast on Location, Aug:68
Costs. Short Cuts to Analyzing Piping Costs, Charles J. Allen, Jan:61
Cost Estimating: Central Heating and Refrigeration Systems, Sam P. Goethe, Oct:46
Fiber Reinforced Plastic Pipe, Philip A. Schweitzer, Sept:45
for compressed air. Fundamentals of Compressed Gas (TAPE), Jan:111
Freeze protection by unit heaters. Unit Heaters Protect Busch Stadium Heating System, Feb:68
in Germany. Latest From Europe, R.M.E.Diamant, Feb:14
Hangers for. Basic Design of Pipe Hangers (TAPE), R.L.Wheeler,May:105
Insulation for. Pipe Insulation--An Integral Part of Piping Systems (TAPE), Harvell M. Smith, May:111
Insulation for HTW systems. Latest From Europe, R. M. E. Diamant, Mar:15
Plastic, for plumbing. Introduction to the Seminars (TAPE), Howard A. Wolfberg, Aug:96
Plastic, for plumbing, code directory. Plastic Pipe in Plumbing Service (TAPE), Dec:75
Plastic. Theory and Practice of Plastic Piping (Ref.Sec.), Philip A. Schweitzer, May:41
Scale Models for Mechanical Services (TAPE), Michael Hargreaves and J. G. Rodgers, Jul:77
for Univ. of Florida campus central system. Campus Distribution System Snakes Around Priceless Trees, Jan:75
for Univ. of Pittsburgh Johnstown campus central system. Students Provide Heat, Get Free Air Conditioning, Jan:73
Victualic couplings for. Mechanical Couplings and Grooved Pipe Solve Installation Problems (TAPE), John H. Krooss, Jun: 122
SEE, Also, Plumbing

PIPING DETAILS
Steam drips, steam-water convertor, water coil, fan-coil unit, finned radiation, unit heaters. Standard for HVAC Systems and Equipment (Detail Sheet), Harold B. Swygert, Nov:69

PIPING REFRIGERANT
Return of refrigerant and oil to compressor. Specification and Design Seminar, Mel Ramsey: Unloading the Trap, Aug:65
Why Liquid Refrigerant Enters the Suction Line, May:57

PLUMBING
Codes, role of National Bureau of Standards in. Introduction to the Seminars (TAPE), Howard A. Wolfberg, Aug:96
In Europe. Introduction to the Seminars (TAPE), Howard A. Wolfberg, Aug:96
Local Code and Utility Index, (TAPE), Michael C. Maroko, Mar:111; Sept:110
Plastic pipe for. Introduction to the Seminars (TAPE), Howard A. Wolfberg, Aug:96
Plastic pipe for directory of codes. Plastic Pipe in Plumbing Service (TAPE), Dec:75
Pressure reducing valves. PRV's in Plumbing Systems, Alfred Steele, Jan:59
Water Pressure Regulators (TAPE), A. L. Camp, Feb:97
From the Office of Joseph R. Loring and Associates: Selection of Pressure Reducing Valves (Ref. Sec.), Irving Gold and Gegory Minasian, Jun:70
Summaries of national technical papers. Introduction to the Seminars (TAPE), Howard A. Wolfberg, Aug:96
Valves in Plumbing Systems (TAPE), Bob Tietz, Feb:100

PLUMBING FIXTURES
Fiberglass reinforced plastic for. FRP for Plumbing Fixtures Proves Out (TAPE), Jun:117; Introduction to the Seminars (TAPE), Howard A. Wolfberg, Aug:96

PRIME MOVERS
Is There a Steam Turbine in Your Future, John J. Coffey, Apr: 43

REFRIGERATION
Automatic Hot Gas Bypass--Protection at Low Loads, C. G. Kirkman, Jan:64
Breakdowns. Air Conditioning Equipment Breakdown: Causes and Prevention, C. Z. Parker, Sept:65
Flash tank control. Specification and Design Seminar: Cavitation, Velocity and Liquid Level-Continued, Mel Ramsey, Jan:69; Feb:61
Problem of liquid in suction line. Specification and Design Seminar: Why Liquid Refrigerant Engers the Suction Line, Mel Ramsey, May:57
Traps. Specification and Design Seminar, Mel Ramsey: Traps That Protect Compressors, Jul:53;
Unloading the Traps, Aug:65

SCHOOLS
Studies Effect of Thermal Environment on Learning, Oct:12

SCRUBBERS
SEE Air Pollution Control

SEWAGE TREATMENT
Sewage Treatment System Offers High Rate of Decomposition, Nov:57

SILENCERS
Ins and Outs of Heat Recovery Equipment (Ref. Sec.), Paul E. Clay, Jan:47

SPECIFICATIONS
Fibrous Glass Duct (Ref. Sec.), Feb:39
Valves in Plumbing Systems (TAPE), Bob Tietz, Feb:100

STEAM
Flash tanks, piping and controls for. Specification and Design Seminar: Cavitation, Velocity and Liquid Level--Continued, Mel Ramsey, Jan:69; Feb:61
How to Design Steam and HTW Systems-- Part 2 (Ref. Sec.), William L. Sculthorpe, Aug:41
Is There a Steam Turbine in Your Future?, John J. Coffey, Apr:43

SUPERVISION
From the Office of Joseph R. Loring and Associates: Field Supervision, Harley F. Fincken, Jun:51

TOTAL ENERGY
Cost Estimating: Total Energy for Campus Dormitories (Ref. Sec.), J. T. Coan and B. I. Routh, Jul:47
Latest From Europe, R.M.E.Diamant, Apr:8

UNDERGROUND SHELTERS
Mechanical Requirements of Bomb Shelters (TAPE), Thomas H. Parry, Apr:108

UNIT VENTILATORS
Heating Strips Cut Mechanical Costs, May:59

VALVES
Pressure reducing, in plumbing systems. PRV's in Plumbing Systems, Alfred Steele, Jan:59
Water Pressure Regulators (TAPE), A. L. Camp, Feb:97
Refrigerant, hot gas bypass. Automatic Hot Gas Bypass--Protection at Low Loads, C. G. Kirkman, Jan:64
Selection and sizing of in plumbing systems. Valves in Plumbing Systems (TAPE), Bob Tietz, Feb:100

VENTILATION
Combined with drainage in underground garages. New Design for the Underground Garage (TAPE), Donald F. Dickerson, Mar:105
Detail for exhaust booth. Standards for HVAC Systems--Continued (Detail Sheet), Harold B. Swygert, Dec:63
For laboratories. From the Office of Joseph R. Loring and Associates: Selecting Systems for Lab Buildings (Ref.Sec.), William J. Dunne, Jun:53

VENTING
Large-Diameter Manifold Offers Esthetic Solution to Unusual Venting Problem, Sept:63

WASTE HEAT RECOVERY
From incinerators. Waste Heat Recovery from Incinerators Cay Pay Off, Oct:15

WASTE TREATMENT
Waste Treatment for Electronics (TAPE), Hoyt Lower, Jr., Dec:79

WATER CHILLERS
Air-cooled. Piping for Building HVAC (Detail Sheet), Harold B. Swygert, Oct:55

WATER HEATERS
Domestic Water Heater Fundamentals (TAPE), John A. Clark, Oct:87
Fouling factors for. From the Office of Joseph R. Loring and Associates: Don't Foul Out! (Ref. Sec.), Harrison D. Goodman, Jun:66
in hotel cramped space. More Hot Water at Lower Cost, Apr:63
Sizing methods. Service Hot Water Sizing Methods (TAPE), Lawrence G. Spielvogel, Sept:105

WATER SUPPLY
Mechanical Requirements of Bomb Shelters (TAPE), Thomas H. Parry, Apr:108

WATER TREATMENT
Cure for Pitting in Low Pressure Boiler Systems, R. T. Blake,Nov:45
How to Design Steam and HTW Systems--Part 2, (Ref. Sec.), William L. Sculthorpe, Aug:41
Removing Color From River Water (TAPE), Apr:103

WATER AND WASTE SYSTEMS
Problems in design. introduction to the Seminars (TAPE), Howard A. Wolfberg, Aug:96

INDEX BY AUTHORS

Allen, Charles J., -Short Cuts to Analyzing Piping Costs, Jan:61.
Barnhart, J. M., -Fibrous Glass Duct Gains Acceptance, Nov:54.
Bell, Morton, -Cost Estimating: The Cost of Clean Air (Fef.Sec.), Jul:41
Blake, R. T., -Cure for Pitting in Low Pressure Boiler Systems, Nov:45.
Brand, Bruce, -How Cooling Tower Performance is Certified, Dec:31.
Brucker, John, Jr., -Gas Supplements Heat of Light, Oct:39.
Camp, A. L., -Water Pressure Regulators (TAPE), Feb:97.
Clark, John A., -Domestic Water Heater Fundamentals (TAPE), Oct:87.
Clay, Paul E., -Ins and Outs of Heat Recovery Equipment (Ref.Sec.), Jan:47.
Coan, J. T., -Cost Estimating: Total Energy for Campus Dormitories (Ref. Sec.), with B.I.Routh, Jul:47.
Coffey, John J., -Is There a Steam Turbine in Your Future?, Apr:43.
Connell, C. F. -Selecting Dry Compressed Air Systems (Ref. Sec.), with W. M. Newman, Nov:47.
Constance, John D., -Estimating Sheet Metal Duct Weights (Data Sheet), Aug:57; Friction Drop Across Louvers (Data Sheet), Mar:49; A Glimpse of Some Recent Trends in P.E. Licensing, Apr:48.
Cough, Henry, J., -Instant Prequalification of Contractors Gains Favor in Chicago, Apr:55.
Diamant, R. M. E., -Latest From Europe, Feb:14; Mar:15; Apr:8; May:6; Jun:21; Jul:6; Oct:23; Dec:14.
Dickerson, Donald F., -New Design for the Underground Garage (TAPE), Mar:105.
Dunne, William J., -From the Office of Joseph R. Loring and Associates: Selecting Systems for Lab Buildings (Ref. Sec.), Jun:53
Edmunds, Kenneth B., -Cost Estimating Building Service Systems: 20--Cast Iron Ring Joint Water Pipe, Jan:71; 21--Piping Charts, Feb:65.
Emerick, Robert H., -Field Report on a Boiler Explosion, Sept:61.
Fincken, Harley F., -From the Office of Joseph R. Loring and Associates: Field Supervision (Ref. Sec.), Jun:51.
Fuller, R. Buckminster, -Environmental Control Becomes Architecture, Jul:33.
Gehrke-Manning, Joachim E., -Air Handling Techniques for the Sterile Work Area, Dec:38.
Goethe, Sam P., -Cost Estimating: Central Heating and Refrigeration Systems, Oct:46.
Gold, Irving, -From the Office of Joseph R. Loring and Associates: Selection of Pressure Reducing Valves (Ref. Sec.), with Gregory Minasian, Jun:70.
Goodman, Harrison D., -From the Office of Joseph R. Loring and Associates: Don't Foul Out! (Ref. Sec.), Jun:66; (What Readers Say), Oct:4
Hargreaves, Michael, -Scale Models for Mechanical Services (TAPE), with J. G. Rodgers, Jul:77.
Heckert, Frank, -Controlling Airflow Between Hospital Areas, Dec:33.
Hensley, John C., -The Disappearing Cooling Tower, Apr:50
Jhangiani, H. M., -Changing Patterns in India, Jan:55
Jordan, Carl H., -Control Wiring for Standby Equipment, Jan:53
Kelsch, Joseph R., Jr., -How to Get Construction Performance to Specifications, Sept:52.
Kempner, Stanley K., -Design for Air Pollution Control: Venturi-Type Wet Scrubbers, Jul:14.
Kirkman, C. G., -Automatic Hot Gas Bypass--Protection at Low Loads, Jan:64.
Kodaras, Michael J., -Fireproofing Return Air Plenums, Dec:29
Krooss, John H., -Mechanical Couplings and Grooved Pipe Solve Installation Problems (TAPE), Jun:122.
Lanier, R. L., -Calculating Bearing Life in Air Moving Devices, Oct:51
Loring, Joseph R., -From the Office of Joseph R. Loring and Associates: How the EE Influences System Selection (Ref. Sec.), Jun:47
Lower, Hoyt, Jr., -Waste Treatment for Electronics (TAPE), Dec:79.
Marcko, Michael C., -Local Code and Utility Index (TAPE), Mar:111; Supplement (TAPE), Sept:110.
Meckler, Milton, -Cost Estimating: Air Handling Equipment for Contamination Control (Ref. Sec.), Jul:37.
Minasian, Gregory, -From the Office of Joseph R. Loring and Associates: Selection of Pressure Reducing Valves (Ref. Sec.), with Irving Gold, Jun:70.
Newman, W. M., -Selecting Dry Compressed Air Systems (Ref. Sec.) with C. F. Connell, Nov:47
Nuchtern, Adolf, -From the Office of Joseph R. Loring and Associates: Innovators, Beware! (Ref. Sec.), Jun:46.
Parker, C. Z., -Air Conditioning Equipment Breakdown: Causes and Prevention, Sept:65.
Parry, Thomas H., -Mechanical Requirements of Bomb Shelters (TAPE), Apr:108.
Ramsey, Mel, -Effect of Altitude on Equipment Performance (Ref. Sec.), Mar:41; Specification and Design Seminar: Cavitation, Velicity and Liquid Level--Continued, Jan:69; Concluded, Feb:61; Effect of Altitude on Equipment Performance, Apr:57; Why Liquid Refrigerant Enters the Suction Line, May:57; Traps That Protect Compressors, Jul:53; Unloading the Trap, Aug:65; Modifying a Multizone to Eliminate Waste, Oct:61; Multizone Units--Subject to Change, Dec:41.
Reefer, Max C., -Design for Minimum Maintenance, Nov:41.
Rodgers, J. G., -Scale Models for Mechanical Services (TAPE) with Michael Hargreaves, Jul:77.
Routh, B. I., -Cost Estimating: Total Energy for Campus Dormitories (Ref. Sec.), with J. T. Coan, Jul:47.
Schweitzer, Philip A., -Fiber Reinforced Plastic Pipe, Sept:45; Theory and Practice of Plastic Piping (Ref. Sec.), May:41.
Sculthorpe, William L., -How to Design Steam and HTW Systems -- Part 2 (Ref. Sec.), Aug:41.
Seibert, R. H., -Fans in HVAC Service, Sept:54.
Seiler, Ed, -Design for Air Pollution Control: Reader Asks for Collector Data, Jan:7; Stack Analysis for Sampling, Feb:8; Comparison of Source Sampling Techniques, Mar:17; Reader in Poland Has Sandstorm Problem, Apr:10; Selecting Tower Packing, May:11; The Latest on Standard Testing Procedures, Jun:16; Air Pollution and the HVAC Engineer, Aug:13; Extended Surface Packing, Sept:13; Horizontal Scrubbers, Oct:18; New Manual is an Invaluable Guide, Nov:11; Plate Scrubbers, Dec:8; SEE Stanley K. Kempner.
Shuman, Howard, -A National Building Code?, Mar:7.
Smith, Harvell M., -Pipe Insulation--An Integral Part of Piping Systems (TAPE), May:111.
Spielvogel, Lawrence G., -Service Hot Water Sizing Methods (TAPE), Sept:105.
Steele, Alfred, -PRV's in Plumbing Systems, Jan:59
Swygert, Harold B., -Piping for Building HVAC (Detail Sheet), Oct:55; Standards for HVAC Systems and Equipment (Detail Sheet), Nov:69; Continued, Dec:63.
Taub, Leon J., -Calculating Cooling Needs by Computer, Sept:57.
Tietz, Bob, -Valves in Plumbing Systems (TAPE), Feb:100.
Trelease, Robert B., -Aerospace Insulation Materials Point the Way to Better HVAC, Nov:52.
Wheeler, R. L., -Basic Design of Pipe Hangers (TAPE), May:105.
Wolfberg, Howard A.,-Introduction to the Seminars (TAPE), Aug:96.
Zierenberg, Roger H., -Plumbing Drains--How to Specify Them (TAPE), Jul:80.